

UNIVERSITI TEKNOLOGI MARA

**A STUDY ON IMPROVING WORKER
SAFETY AT HIGHWAY**

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Thesis submitted in fulfillment of the requirements
for the degree of
Master In Facilities Management

Faculty Of Architecture, Planning & Surveying

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Candidate's Declaration

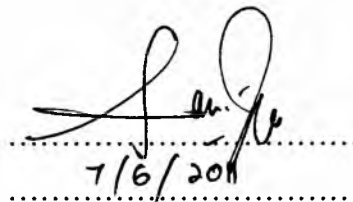
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ABSTRACT

The construction industry has historically encountered far more injuries and fatalities as the statically showed. According to the statistic on year 2008 construction industry represented 73 % cases in Malaysia with second ranking on type of injury after manufacturing sector (OSHA Malaysia, 2010). In theory it highlighted that the construction industry is a most risky than other industries.

There is an inherent risk of injury or fatality in all occupations. Even sectaries occupations face jobsite hazard such as back injury. The highway brings increased risks to those who work on the network to ensure that it is kept safe and in good condition. Government and industry are working together to improve the expose to the risk. The Authorities agency such as Kementerian Kerjaraya Malaysia, Lembaga Lebuhraya Malaysia, Jabatan Kerja Raya, NIOSH, DOSH and other respective has taken various action plans in providing safety aspect to the highway worker.

Highway worker is vulnerable from being hit by traffic and these risks need to be reduced. Action is urgently needed to make changes to reduce the risks for those working on the live carriageways, which is the most hazardous area for the highway operations. Highway worker include all operatives working who are directly exposed to risks from highway users. These include highways representative from Maintenance and Traffic Officers, all workers engaged in

traffic management activities and incident support services, maintenance, vehicle recovery operators and any other activities where live traffic is present.

The aim of the study is to identify the safety aspects on jobsite of highway workers involve. The research also explores worker safety awareness and policy that has been provide by the highway concession organisation. The result will improve and benefit the current work practices. The study was done with highway concessions companies within Klang Valley such as KESAS, LDP and PLUS-Elite and a questionnaire is designed.

The methodology of the study involves document studies on jobsite of highway worker with the safety requirement, questionnaire survey and face-to-face interview with traffic and maintenance representatives. Data was analysed using descriptive statistic.

At the end of the thesis, the result on the suggestion for improvement will identify. A recommendation will enlarge the effectiveness of highway workers safety. This will be useful for the authorities and highway Concession Company in improving their highway worker safety requirement.

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